

Central California Ozone Study (CCOS)
Emission Inventory Coordination Meeting

Meeting Highlights
March 16, 1999

Attendees	Affiliation
Tom Perardi	Bay Area AQMD
Phil Martin	Bay Area AQMD
Toch Mangat	Bay Area AQMD
Greg Tholen	Sacramento Metro AQMD
Dave Jones	San Joaquin Valley Unified APCD
Scott Nestor	San Joaquin Valley Unified APCD
Joan Merchen	San Joaquin Valley Unified APCD
Susan Walker	San Joaquin Valley Unified APCD
Steve Shaw	San Joaquin Valley Unified APCD
Tom Jordan	San Joaquin Valley Unified APCD
Linda Murchison	ARB
Andrew Ranzieri	ARB
Dean Saito	ARB
Dale Shimp	ARB
Tina Suarez-Murias	ARB
Cheryl Taylor	ARB
Lucille Van Ommering	ARB
Dennis Wade	ARB

1. Welcome and Meeting Highlights

Linda Murchison welcomed everyone to the call. Introductions were made. Highlights of the February 5 meeting were approved as written.

2. Status of Overall Study

The CCOS study has been absorbed as part of the larger California Regional PM₁₀/PM_{2.5} Air Quality Study (CRPAQS) particulate study and will be coordinated by the CRPAQS Policy Committee. This makes sense because there is a lot of overlap in the data needs to support modeling for both ozone and PM. As part of this effort, the CCOS emission inventory coordinating committee will need to begin working with the CRPAQS Technical Committee on joint emission inventory projects. The CRPAQS study will be funding a number of emission inventory research projects. Representatives of the ozone and PM portions of the study will need to work together to make the most efficient use of the funds available. The ARB is in the process of establishing a contract with UC Davis, using DRI as a subcontractor, to develop a plan for gathering the aerometric data needed to support the ozone study. The CCOS inventory team should carefully track this process because the plan developed by DRI for the SCOS study allocated zero resources for emission inventory development or improvement.

3. Review of the Draft Action Plan and Timeline

Linda asked the participants to provide feedback on the draft action plan and timeline. This product will be given to the technical committee for their information and as the basis to request funding for emission inventory work.

Dale provided more detail on each of the items listed in the plan. Andrew asked when the SIP for the 8-hour ozone standard is due to EPA. It will be due on July 17, 2003 (without the 1 hour plan). Backing up from that date, the modeling work would need to be done in 2001. That date is earlier than when the CCOS study data can all be compiled. This difference will be resolved by building in to the timeline interim products that can be used for planning. ARB will expand the timeline to include additional milestone points.

One of the items listed on the action plan is the collection of day-specific data. Phil Martin suggested that it would save time in the long run if districts could automate the collection of information needed to calculate day-specific emissions. Linda responded that districts are welcome to do that, but most districts don't have that capability. For SCOS, the districts gathered day-specific data for all study days, but only reduced the data needed for the specific IOP days. The EIWG will need to agree on the criteria for determining which point sources will be asked to provide day-specific information. The criteria will include the amount of emissions and the type of facility.

4. Review of Research Projects to Support Emission Inventory Data for CCOS

Dale reviewed each item of the document titled "Potential Outside Research Projects Needed to Support CCOS." The EIWG will need to decide which of these items should be funded and if funding is available.

The first project listed is to help small districts develop and/or improve their point and area source emission inventories. At the last meeting, EIWG members expressed the opinion that small districts may need additional resources to do the increased inventory work needed for modeling studies.

For biogenics, Dale said that the ARB is trying to develop a statewide biogenics inventory. A GIS-based biogenic inventory has been created for the SCOS region, which covers the lower portion of California, up to Kern County. ARB is extending the biogenic inventory further north. However, data on some of the major plant species are missing for the Central Valley and the Bay Area. Biomass and emission factor data will be needed for these species.

Another project would be the collection of day-specific data for wildfires, controlled burns and agricultural burns. For SCOS, staff at the ARB gathered the information needed to estimate wildfire emissions and created the day-specific inventories. Perhaps ARB could estimate the day-specific wildfire emissions for CCOS. Scott Nestor said that the SJVUAPCD tracks information about controlled and agricultural burns, but there is some concern about the accuracy of the data for day-specific use. Tom commented that the districts might be able to contact the U.S. Forest Service, the California Dept. of Forestry and other agencies that keep track of wildfires. He will also check to see if satellite data could be used to locate burns.

One potential project would be to collect day-specific traffic count information. This project would likely be expensive due to the size of the CCOS region and the relatively few traffic counters currently in use except in the Bay Area and Sacramento regions. There is a traffic management center in Oakland which collects traffic count data for the Bay Area. Tom will contact them about getting count information. Unfortunately, the counters cannot distinguish between passenger cars and trucks. Weigh-in-motion data are available for trucks. However, they are located on the perimeters of large urban areas so they don't tell what is happening in the urban area. ARB will develop a scope of work to have Dr. Debbie Niemeier of UC Davis prepare a scoping study which will review the availability of traffic data and develop a sampling plan using statistical methods for the placement of traffic counters for CCOS. The main focus would be for the San Joaquin Valley, the Bay Area and Sacramento. The scoping study will be used for both ozone and PM purposes. The EIWG will discuss the scope of work at the next meeting. Then, staff of the ARB will present the scope of work at the next technical committee meeting in April and at the policy committee meeting at the end of May. There may be some funding available from sources interested in the PM side of CCOS.

A related project to the previous one covers integrating the transportation data for the CCOS domain and running DTIM for the entire domain. Transportation models reflect a "generic" weekday more typical of spring or fall. Integrating the transportation data is a season independent activity; seasonality (both weekdays and weekend days) is introduced through day-specific adjustments. It might be possible to fund this project from sources interested in PM since this activity would be necessary for both ozone and PM modeling.

A final potential project is to develop base year and future year gridding surrogates for spatially distributing area source emissions. Since the surrogates for PM categories are particularly weak, funding may be available from those particularly interested in PM. Andrew will explore the funding possibilities.

Linda asked the districts to comment on the potential research projects. In particular, she would like to receive comments on whether some of the projects could be conducted in-house or if there are other needs not listed.

5. District List of Issues for CCOS

The only comments received came from Phil Martin. Due to time constraints, Phil's comments will be discussed at the next meeting. Other districts are still encouraged to provide comments to ARB.

6. Next Meeting

Linda suggested that the next meeting be conducted face-to-face in Sacramento. It is scheduled for Thursday, April 22, 1999. ARB will give short presentations on biogenics and the SMOKE model. Agenda items were listed.